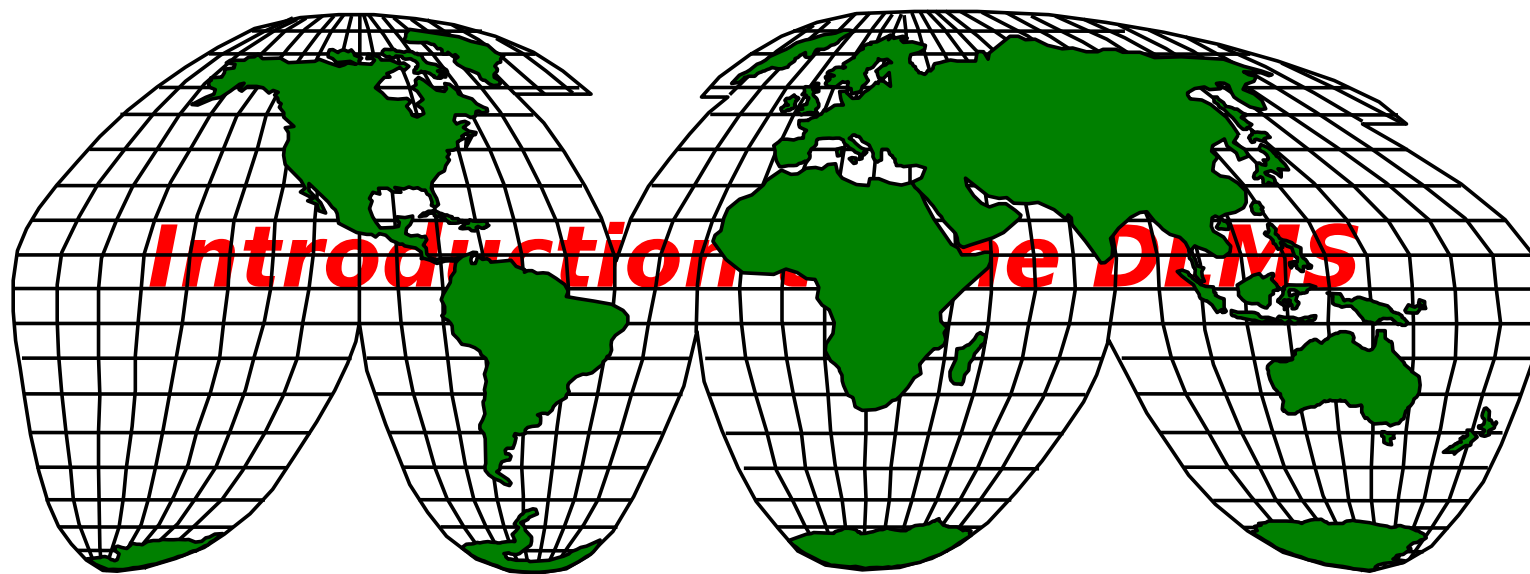




Defense Logistics Management System (DLMS) Introductory Training





DLMS Training Catalog

Module 1 - Introduction to the DLMS

Module 2 - Electronic Data Interchange (EDI) Basics and ASC X12 EDI Definitions and Concepts

Module 3 - DLMS Functionality & Transaction Life-Cycle

Module 4 - DLMS Transaction Supplement Content

Module 4F - DLMS Functional Financial Transaction Life-Cycle

Module 5 - IUID & RFID - Emerging Technologies

Module 6 - Creating/Reengineering DOD Logistics Business Processes

Module 6A - DLMS Configuration Management (stand alone Module)

Module 7 - Enterprise Interoperability Tools

Module 8 - DoD Activity Address Directory (DoDAAD)



Course Objectives

Students will gain basic understanding of the:

- **DLMS purpose, definition, concepts, infrastructure, and policies**
- **Background and basics of electronic data interchange (EDI)**
- **The strategy and roadmap to implement the DLMS**
- **Accredited Standards Committee (ASC) X12 EDI definitions and basic structure**
- **ASC X12 applied in DOD: the Federal implementation conventions (ICs) & DLMS supplements**
- **DLMS XML and emerging technologies/initiatives**



Module Structure

Module 1 - Introduction to the

DLMS

- **Background**
- **Corporate Infrastructure**
 - **Enterprise Support Services**
 - **Where to Get Help**
- **Policy and Guidance**
- **Ten Steps to Successful Implementation**



Module 1 Objectives

Students will gain basic understanding of:

- **What is the DLMS**
- **Why they are important**
- **How they are developed and maintained**
- **How EDI fits into the DLMS**
- **What enterprise services support the DLMS**
- **DLMS concepts & implementation strategy**
- **The policies governing the DLMS**
- **Ten Steps to a successful DLMS implementation**

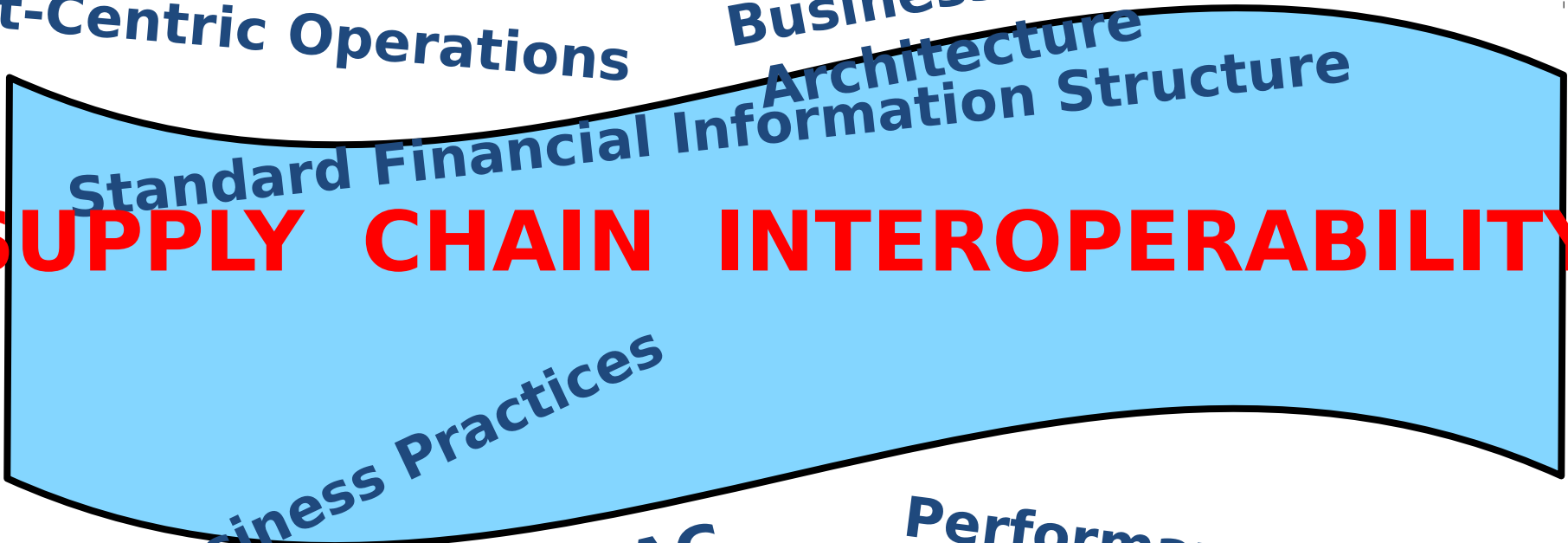


Defense Logistics Management System (DLMS)



DLMS Mission & Purpose

Strategic Network Optimization
Service Oriented Architecture
Process Reengineering
Enterprise
Customer-Centric Operations
Business Architecture



Standard Financial Information Structure

Best Business Practices

BRAC

NWRM

Performance Based Logistics

Information Superiority

RFID

IUID

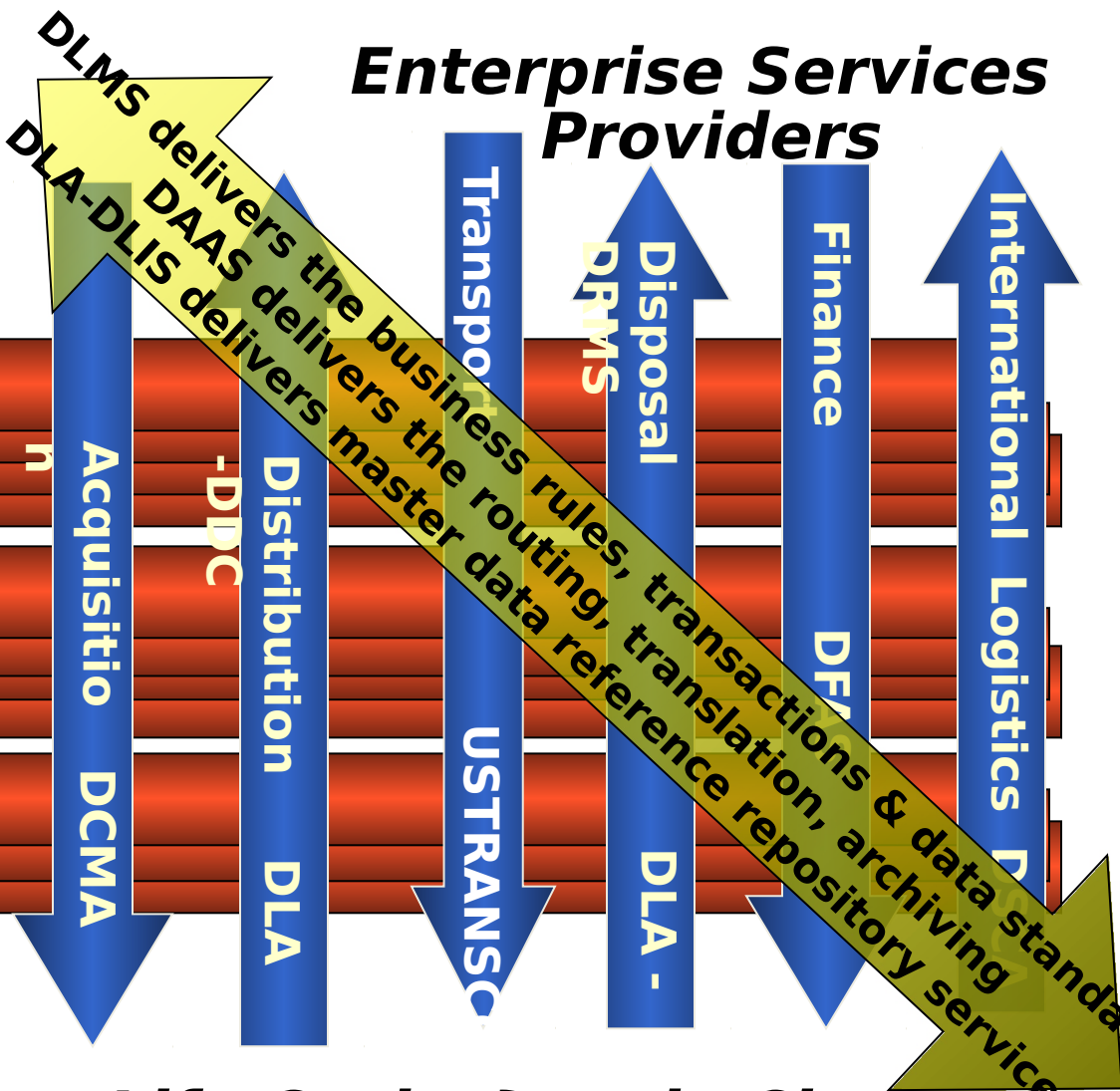


Interoperability of What?

Life Cycle Supply Chains



24 x 7



Challenge: To Connect Life Cycle Supply Chains & Enterprise Services Providers DoD-wide



Interoperability

Framework

- **Business Policy:** *A required outcome - Property stewardship*
 - **Business Process:** *An assemblage of business rules that collectively form a process. -- Physical Inventory Management*
 - **Business Rule:** *States what must or must not be done.*

Storage Activities must report the ending on-hand inventory balance to the item owner for all items having any balance effecting business activity that day.
 - **Business Object:** *A collection of data in a specified format that launches a process or reports process results.*

An order, inventory adjustment, request for payment, etc.
 - **Metadata:** *Characteristics of a data element. Inventory Balance Date = 8 numeric characters (yyyymmdd)*



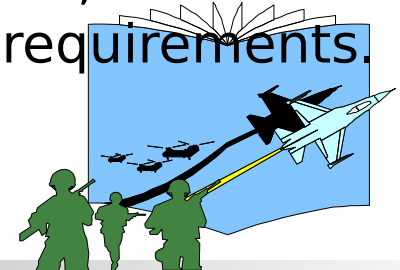
Period of Transition & Transformation

- **In 1962, the DOD established the Military Standard Systems (MILS) to realize the advantages of advancing computer technology and ensure interoperability**
(The MILS were renamed the Defense Logistics Standard Systems (DLSS))
- **The DLSS information exchange format is technically obsolete, unique to DOD and inhibits functional process improvements and process reengineering efforts**
- **DOD is modernizing business systems which includes replacing the DLSS (aka MILS) with the DLMS**



What is the DLMS?

- **The Defense Logistics Management System (DLMS) is a broad base of process rules, data standards and electronic business objects (information exchange forms) designed to meet DoD's requirements for total logistics support.**
 - ✓ Developed in collaboration with representatives from the Military Departments, Defense Agencies, and participating Federal Agencies
 - ✓ Accommodates the new Enterprise Resource Planning (ERP) system processes and implementation, while supporting legacy system data exchange requirements.





More about the DLMS:

- **Includes procedures, data standards, code lists, metrics, policies, and transaction formats**
- **Currently consist of two data transmission forms:**
 - ✓ **DLMS EDI Supplements that use ASC X12 transaction sets to consolidate the functionality of 500+ DLSS transaction formats**
 - ✓ **DLMS XML Schemas - one for each EDI Supplement**
- **Maintains capability to communicate legacy system information requirements while expanding to support new initiatives such as:**
 - ✓ **Item Unique Identification (IUID)**
 - ✓ **Base Realignment And Closure (BRAC)**
 - ✓ **Passive Radio Frequency Identification (pRFID)**



Types of DLMS Support

- **Supports transitioning from the DLSS to the DLMS**
 - ✓ Replaces all of the DLSS transaction formats/associated procedures
 - ✓ Examples: MILSTRIP, MILSTRAP, MILSBILLS, SDR, MILSCAP
- **Supports new processes/capabilities not previously associated with a DLSS transaction**
 - ✓ Publishes the transaction format, adds data elements to DLMS Dictionary, and prescribes the business rules/procedures
 - ✓ Examples: Warehouse Service Advice/Response, Passive RFID Visibility, Catalog Data Exchange, IUID
- **Provides transaction formats for logistics processes that are not administered by the DLMS office**
 - ✓ Publishes the transaction format/adds data elements to DLMS Dictionary
 - ✓ Provides overview of process/references governing policy/process (no procedural detail)
 - ✓ Examples: Stock Readiness (Storage Quality Control Report and Stock Screening), Product Quality Deficiency Report, Weapon Systems Data Change **13**



Enterprise Service Enablers

- **Goal: Interoperable infrastructure processes and applications**
- **Focus: Common support services - translation, business rules, standards, reference repositories, testing, etc.**

Enterprise enabling services and infrastructure available to all, providing maximum implementation flexibility



DLA Logistics Management Standards (formerly DLMSO)

**DoD's Executive Agent
for Logistics Data
Interchange**

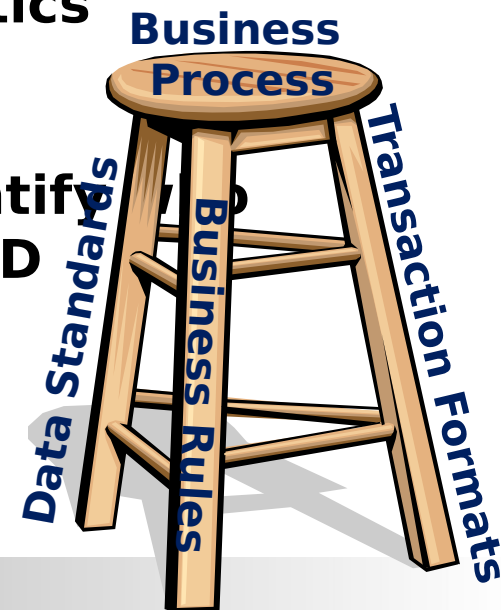


DLMS Purpose/Mission

Business Process Transformation & Interoperability

Facilitate enterprise integration and continuous process improvements to logistics management and operations while maintaining interoperability by:

- Developing business rules that implement DoD policy
- Developing and managing the DoD logistics information exchange infrastructure
- Publishing detailed procedures that identify what, when, and how along the DoD logistics chain





DoD Consensus Builder

The DLMS office administers DoD-wide:

- Defense Logistics Management System (DLMS)
- DoD Physical Inventory Control Program
- DLMS Data Management Plan
- Defense Logistics Standard Systems (DLSS)

The DLMS office chairs:

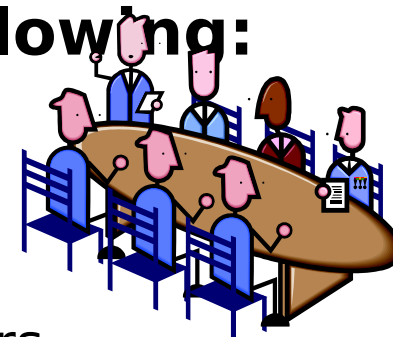
- DLMS Process Review Committees (PRCs)
- Unique Item Tracking Committee
- Pipeline Measurement Process Review Committee (PM PRC)
- DoD Supply Discrepancy Reporting Sub-Committee
- Joint Physical Inventory Working Group
- Joint Small Arms/Light Weapons Coordinating Committee
- DoDAAD / MAPAD Committees





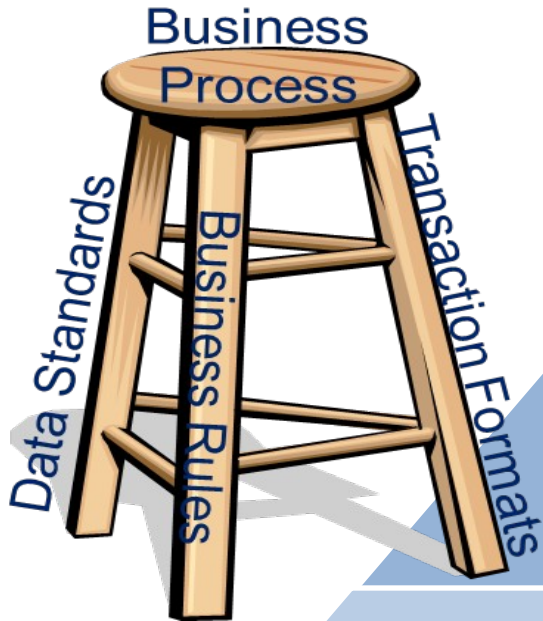
DLMS Process Review Committees (PRC)

- **The DLMS office chairs the following:**
 - ✓ Supply PRC
 - ✓ Finance PRC
 - ✓ Pipeline Measurement PRC
 - ✓ DODAAD, MAPAD, SDR, JPIWG & others
- **Composed of representatives from the DoD Components, the U.S. Coast Guard, and participating Federal Agencies**
- **Responsibilities include:**
 - ✓ Develop and recommend revised policy, procedures, or process improvements
 - ✓ Develop, evaluate, and coordinate proposed DLMS changes
 - ✓ Help resolve problems, violations, and deviations that arise during system operations





DLMS Governance Process



Directives
Instructions
OSD Policy Direction
Regulations & Manuals

DLMS Configuration Management Process, DLM 4000.25 Series

Standards Syndication

Systems Development:

Business Enterprise Architecture (BEA)

Systems Execution: **DAAS**
applies syntax and semantic validation rules to transactions

Compliance

Oversight



DLMS Process Review Committees

INPUTS

- OSD Policy Guidance
- Trading Partner Requirements & SMEs
- DLMS office SMEs & Technical Expertise
- DLA Transaction Services Technical Expertise

Proposed DLMS Changes (PDCs)

Structured Collaboration Model

**DLMS
MANAGED
TRANSFORMATION
PROCESS**

Artful Negotiation & Consensus Building

OUTPUTS

- Business Rules
- Business Objects
- Meta Data
- Functional Requirements

Approved DLMS Changes (ADCs)

Components Implement

<http://www.dla.mil/j-6/dlmso/About/committees.asp>



DLMS office Implementers Support

- **Functional and technical consultation**
- **Providing X12 implementation conventions and XML schemas**
- **Arranging trading partner meetings/teleconferences**
- **Testing assistance as required**
- **Facilitate coordination with DAAS & trading partners**
- **Modification & configuration management of DLMS**
 - ✓ Business Rules
 - ✓ Transaction formats
 - ✓ Metadata



DLMS office Support to Implementers

Management POCs:

- Mr. DC Pipp (703) 767-0670/DSN 427-0670 donald.pipp@dla.mil
- Lt Col Scott Hopper (703) 767-6295/DSN 427-6295
scott.hopper@dla.mil
- CPT John Burnett (703) 767-xxxx/DSN 427-xxxx
john.burnett@dla.mil

Functional Support POCs:

- Ms. Ellen Hilert (703) 767-0676/DSN 427-0676
ellen.hilert@dla.mil
- Ms. Mary Jane Johnson (703) 767-0677/DSN 427-0677
mary.jane.johnson@dla.mil
- Mr. Bob Hammond (703) 767-767-2117/DSN 427-2117
robert.hammond@dla.mil
- Mr. Tad Delaney (703) 767-6885/DSN 427-6885
thomas.delaney@dla.mil
- Ms. Heidi Daverede (703) 767-5111/DSN 427-5111
heidi.daverede@dla.mil
- Mr. Lou Madrigal (703) 767-2011/DSN 427-2011
luis.madrigal@dla.mil
- Mr. Ken Deans (703) 767-2611 kenneth.deans@dla.mil
- Ms. Samantha Khuon (703) 767-5288 samantha.khuon@dla.mil



Defense Transportation Electronic Business (DTEB) Committee



Defense Transportation Electronic Business (DTEB) Committee

- **Established under authority of DUSD (L&MR)**
- **Focal point for DOD transportation e-business standards and requirements**
- **Community of interest:**
 - DOD
 - Federal Government
 - Commercial industry
- **Chair: USTRANSCOM J-6CDO**
 - Members: Military Services, Defense Logistics Agency, USTRANSCOM Components, DLMS office, GSA, DFAS, AAFES, NEXCOM, Defense Commissary Agency and Marine Corps Exchange



Defense Transportation Regulation (DTR 4500.9-R)

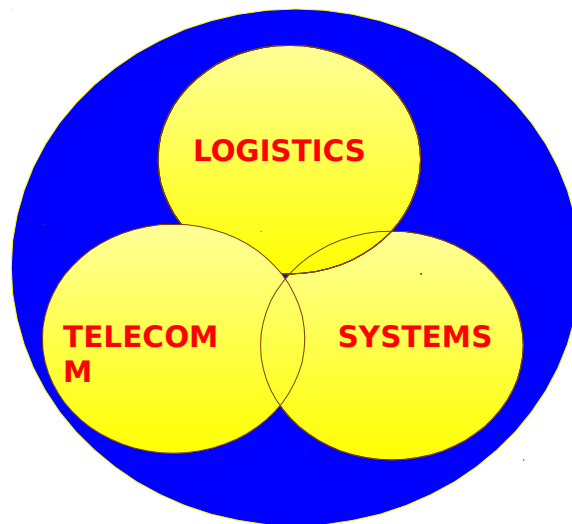
- “Prescribes policies and procedures...”
- “Assigns responsibilities for performing traffic management functions...”
- “Prescribes standard data elements, codes, formats, documents, forms, rules, methods, and procedures ... for movement of materiel within the Defense Transportation System (DTS).”
- Procedures apply to Military Services, DLA, DCMA, Coast Guard, GSA, USTRANSCOM and its Component Commands, and other activities/agencies using the DTS.
- Seven Parts: Part II - Cargo Movement relevant to Logistics

<http://www.transcom.mil/dtr/part-ii/>



DLA Transaction Services

Administers the Defense Automatic Address System (DAAS)



(formerly Defense Automatic Addressing System Center (DAASC))



DAAS Mission:

The Defense Automatic Addressing System (DAAS) mission is to perform as an interoperable gateway for the DoD Components, Government activities, and Foreign Military Sales countries to provide value added services and to deliver logistics data to the appropriate destination, efficiently, expeditiously and accurately.

Support the DoD warfighter's mission by:

Providing logistics data to the appropriate destination in the proper format the first time and every time.

Providing global network interoperability.

Providing value-added services and a central logistics data repository.

Being proactive in supporting DoD modernization efforts.





DLA Transaction Services Support to ERPs and Legacy System Migrations

- **DAAS infrastructure production and test environment daily functions:**
 - Transaction receipt, edit, translation, archiving, and routing
 - Maintenance of logistics information databases
 - Recurring and special reports and data queries
- **DAAS technical consultation and support for:**
 - Set-up of new accounts, telecom protocols, and data protection schemes
 - Logical data mappings between DLSS, DLMS, and XML
 - Coordination of integration testing with System PMO and trading partners
 - Evaluation of test results and assistance with problem resolution
 - Transaction tracking, archiving, file recovery/resubmission.
 - Help desk 365/24/7



Receive, Validate, Edit, Route, & Transmit

DAAS delivers the ability to receive and transmit logistics data across various networks, supporting numerous protocols and formats. This communications interoperability minimizes the number of interfaces that the DoD Components must maintain for the exchange of logistics data. DAAS maintains a history of all transactions processed/routed to support supply chain analysis.

221,574 Activities
Worldwide
Exchanging
Billions of
Transactions

Customers DoD:

- Departments of:
 - Army
 - Navy
 - Air Force
 - Marine Corps
- USTRANSCOM
- Defense Agencies
- Intelligence
- DoD Education Activity
- NATO
- FMS Countries

98% of workload

Civilian

- Departments of:
 - Commerce
 - State
 - Justice
 - NASA
 - EPA
 - GSA
 - VA
- USPS
- GAO
- USCG

2% of workload



Suppliers

Defense Logistics Agency

Military Services

General Services Admin.

Commercial Suppliers

DAAS

Transactions:

- DLSS (MILS)
- DLMS (X12)
- DLMS (XML)
- UDF



DAAS Support to DLMS Implementation

DLMS eBusiness Program Management POCs:

- Clarissa Elmore (937) 656-3770/DSN 986-3770
Clarissa.Elmore@dla.mil
- Jennifer Taulbee (937) 656-3400/DSN 986-3400
jennifer.taulbee@dla.mil

Functional Support POCs/Logistics Division:

- Army/DLA/GSA:
 - Allen Coleman (937) 656-3708/DSN 986-3708 allen.coleman@dla.mil
- Air Force: Bernace Collier (937) 656-3766/DSN 986-3766
bernace.collier@dla.mil
- Navy/Marines/Coast Guard:
 - Edward “Nolan” Davis (937) 656-3255/DSN 986-3255
edward.davis@dla.mil

Mapping Support POCs:

- Doug Mummert (937) 431-8000 doug.mummert.ctr@dla.mil
- Bill Strickler (937) 431-8000 william.strickler.ctr@dla.mil

eBusiness Group (account set-up):

- Jordan Henderson (937) 656-3804/DSN 986-3804

jordan_henderson_ctr@dla.mil



DLA Logistics Information Service (Formerly DLIS)



DLA Logistics Information Service

Mission:

- **Create, obtain, manage, and integrate logistics data from a variety of sources for dissemination as user-friendly information to meet or exceed the needs of DOD, Federal and international logisticians**
 - ✓ Provide cataloging services for 7.5 million active national stock numbered items.
 - ✓ Implement cataloging policies, procedures and metrics to monitor performance
 - ✓ Deliver State-of-the-art logistics support



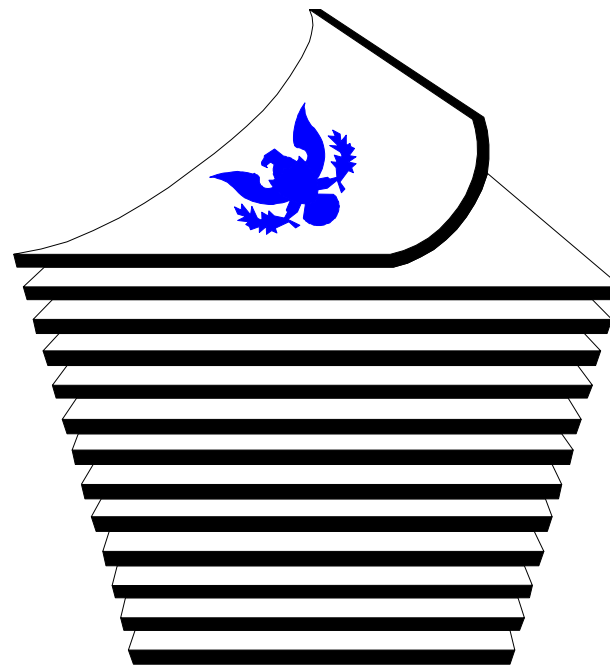
DLA Logistics Information Service

- **Enterprise Reference Repositories**

- ✓ Federal Logistics Information System (FLIS)
- ✓ IUID Registry
- ✓ System for Award Management (SAM):
 - Federal Registration Registry (FedReg)
 - Central Contractor Registry (CCR)
 - Commercial and Government Entity (CAGE) Registry



Policy and Guidance





DoD Policy and Guidance

- DoD Directive 8190.1
- DoD Instruction 4140.01
- DoD Regulation 4140.1-R (changing to an eleven volume manual)
- DLM 4000.25 series of manuals
- Business Enterprise Architecture (BEA)



DoD Policy and Guidance

DoD Directive 8190.1, DoD Logistics Use of Electronic Data Interchange (EDI) Standards



DoD Directive 8190.1 ... continued

- **ANSI ASC X12 is the baseline logistics data exchange standard upon which the DLMS shall be based.**
- **Develop and apply DoD corporate services and processes to minimize duplication and ensure interoperability**
- **Use DLMS as process improvement enabler**
 - ✓ The DOD Components shall use the DLMS in new, replacement and major modifications of logistics business systems
 - ✓ Use as part of ongoing and planned modernization programs



DoD Policy and Guidance

DoD Instruction 4140.01

DoD Supply Chain Materiel Management Policy (December 14, 2011)

- **Materiel management functions shall be implemented with DoD standard systems**
- **Authorizes publication of:**
 - ✓ DoD 4140.1-R, “DoD Supply Chain Management Regulation” (changing to an eleven volume manual)
 - ✓ DLM 4000.25 series of manuals:
 - ✓ DLM 4000.25 (Defense Logistics Management System)
 - ✓ DLM 4000.25-1 (MILSTRIP)
 - ✓ DLM 4000.25-2 (MILSTRAP)
 - ✓ DLM 4000.25-4 (DAAS)



DoD Policy and Guidance

DoD 4140.1-R

**DoD Supply Chain Material
Management Regulation**

(May 23, 2003)

(Will be replaced 2013 by

DoDM 4140.01, Eleven Volumes)

Policy on DLMS Remains Unchanged



DoD 4140.1-R ... continued

- **DoD Components shall support and maintain DLMS for all covered functions**

- ✓ DLMS shall be the primary system governing logistics functional business management standards and practices
- ✓ DLMS shall use ASC X12 EDI transactional interfaces
- ✓ DLMS office shall provide configuration management for DLMS
- ✓ DLSS shall be deactivated upon DoD-wide implementation of DLMS
- ✓ DLMS shall be the basis for new, replacement and major modifications to logistics business processes/systems



DoD 4140.1-R ... continued

- **DAAS shall be:**

- ✓ Designated as the corporate community service provider for DLMS
- ✓ The logistics community's authoritative repository for end-to-end performance metrics
- ✓ Designated as the source for conversion services (DLSS-DLMS)

- **DoD Components shall:**

- ✓ Route all DLSS/DLMS transactions to DAAS
- ✓ Use DAAS DLSS/DLMS conversion services
- ✓ Uniformly implement DLMS



DoD Policy and Guidance

DLM 4000.25

DEFENSE LOGISTICS MANAGEMENT SYSTEM MANUAL (2012)

- **DLM 4000.25 will subsume DLM 4000.25-1 and 4000.25-2 (target December 2013)**
- **Documents the detailed business processes and rules, information exchange formats, data standards and codes**
- **Developed using the DLMS Process Review Committee (PRC) collaborative model**

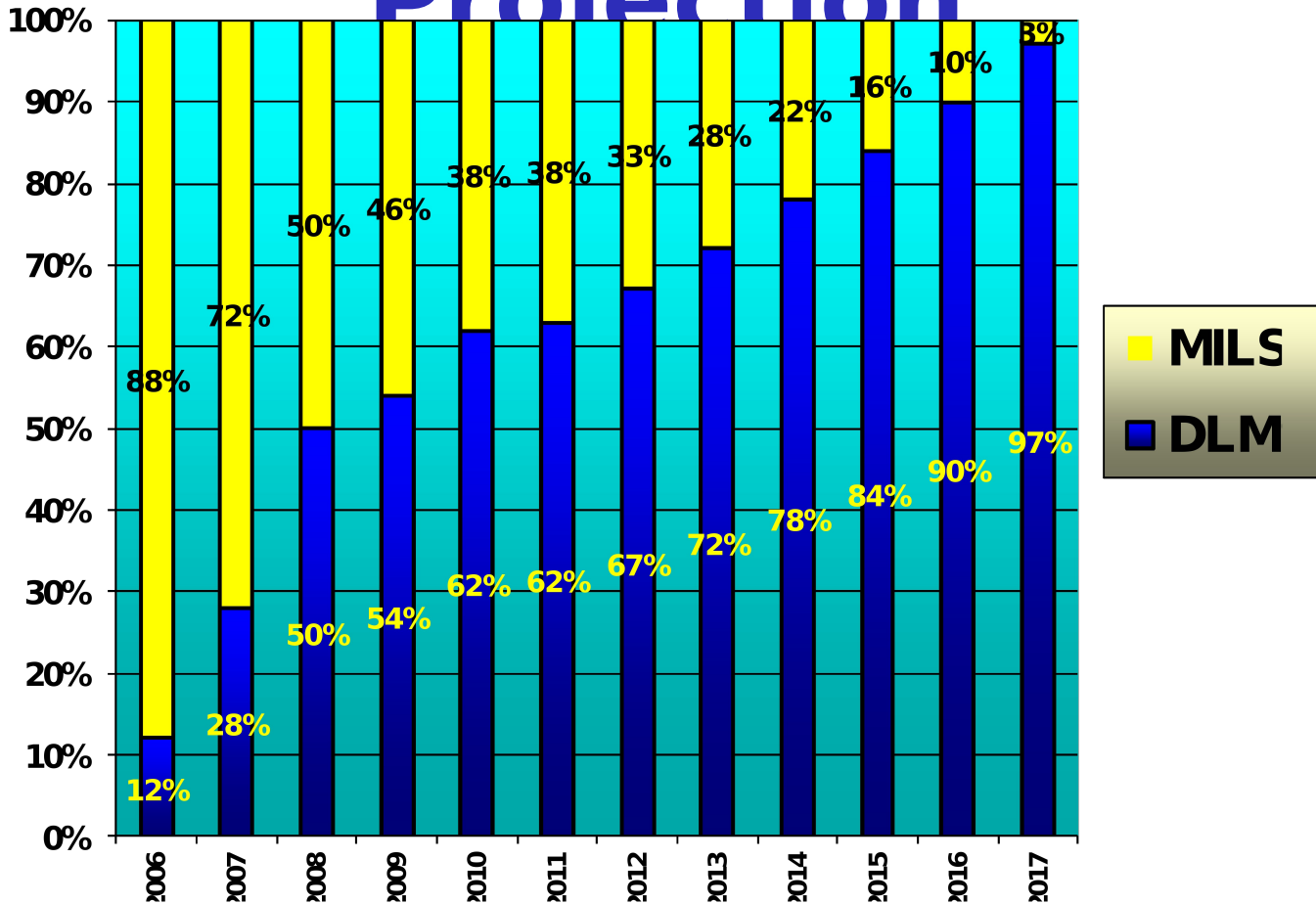


DLMS is a Business Transformation Initiative

- DLMS are mandated in the Business Enterprise Architecture (BEA)



DLMS Migration Metric Projection



Metric measuring progress is the Percentage of DLMS Transactions versus DLSS Transactions

Percentages for 2013 through 2017 are estimates based on system implementation dates.



Ten Steps to Success

Jump Start Project Management Plan (PMP) (pg5)

<http://www.dla.mil/j-6/dlmso/Programs/DLMS/jumpstart.asp>

- 1. Assemble Team of functional and technical experts on the system to be migrated**
- 2. Initiate early contact with DAAS/other trading partners (e.g., DFAS, MOCAS, WAWF); DAAS POC is Clarissa Elmore, (937) 656-3770 DSN 986-3770, email Clarissa.Elmore@dlmso.dla.mil**
 - Develop a Performance Based Agreement (PBA) with trading partners and Authority To Operate (ATO)**
 - Acquire DAAS DLSS to DLMS X12 data maps for the transactions to be migrated**
 - Establish communications mechanisms with DAAS and determine what addressing will be used with DAAS**
- 3. Schedule training with DLMS office and acquire training**
 - Training courses can be requested by contacting DLMS office**



Ten Steps to Success (con't)

- 4. Select, acquire or develop an EDI or XML translator/parser**
- 5. Develop phased migration plan/schedule**
- 6. Pick a simple transaction first and do one at a time, reusing as much as possible for the next transaction**
- 7. Use EDI or XML translation software and DAAS logical data maps to map/parse data for incoming/outgoing DLMS transactions to or from legacy database or flat files**
- 8. Establish table driven DLSS or DLMS on/off switching mechanism to establish positive control, allow for phasing and fail safe fall back**
- 9. Test, Test, Test**
 - Establish loop back testing arrangement with DAAS. System sends DLMS to DAAS & DAAS returns same document in DLSS format and/or vice versa for validation/verification.**
 - Conduct unit code testing on each transaction (test all conditions)**
 - Schedule and conduct integration testing with DAAS & Trading Partners**



Summary

- **DoD Directives mandate moving from DoD-unique logistics data exchange standards to the DLMS**
- **The Defense Logistics Management System (DLMS) is a broad base of DoD-approved business rules, standards, objects and processes designed to ensure interoperability**
- **The strategy to implement DLMS makes use of a managed, phased transformation process with a structured collaboration model**
- **DAAS ensures global network interoperability during the transition from the DLSS to the DLMS**
- **The DLMS is the new standard for all new or replacement logistics systems, or in major modifications made to existing systems**



Module 1 Quiz

Question 1: Which document requires DOD Components to replace DOD-unique logistics data exchange standards with the DLMS?

- a) The DOD Directive 8190.1
- b) DoD 4140.1-R
- c) The Constitution
- d) Both a & b

Question 2: Two part question: 1) Office responsible for standard business process and transactions standards supporting Supply? 2) Transportation?

- a) DLMS office
- b) DTEB
- c) OSD
- d) Secret Service

Question 3: Why does DOD policy mandate the routing of all logistics transactions through DAAS and the use of DAAS conversion services when translations among message formats are required?

- a) Save money
- b) Ensure Interoperability
- c) Single trading partner
- d) Provide Pipeline metrics
- e) All of the above
- f) None of the above

Question 4: Which of the following is also called the “DLMS Manual”?

- a) DOD Directive 8190.1
- b) DoD 4140.1-R
- c) DLM 4000.25
- d) The Constitution



End of Module 1